

# Lebanon Valley College **BULLETIN**

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**EXTENSION, SATURDAY  
and EVENING CLASSES**

**1944 - 1945**

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**LEBANON VALLEY COLLEGE**  
ANNVILLE, PA.

# Faculty of Extension, Saturday and Evening School

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## GENERAL STATEMENT

Through extension work in Harrisburg, evening classes at the college in Annville, and summer school, Lebanon Valley College has for many years enabled many students to obtain college courses and secure academic degrees while continuing their regular occupations. By a careful selection of courses and consultation with the heads of the departments of the college or the director of extension and evening classes, a student can meet the requirements of the college for a baccalaureate degree while earning a livelihood.

All extension and evening courses are taught by full-time members of the college faculty. The courses offered in extension and evening class work are so alternated from year to year that a student can readily secure those required for graduation.

## ACADEMIC STANDING

Lebanon Valley College is fully accredited by the Department of Public Instruction of Pennsylvania, the American Association of Colleges and Secondary Schools of the Middle Atlantic States and Maryland. It is a member of the American Association of Colleges and of the American Council on Education.

Lebanon Valley College is an Associate Member of the National Association of Schools of Music. The Conservatory of Music is fully accredited by the Department of Public Instruction of Pennsylvania.

## LOCATION

The college is situated at Annville, twenty-one miles east of Harrisburg on the Benjamin Franklin Highway. Students from Harrisburg and the vicinity may commute to the college in less than forty minutes time.

## REQUIREMENTS FOR DEGREE

Lebanon Valley College offers the degree of Bachelor of Arts (A.B.) and the degree of Bachelor of Science (B.S.)

**Residence requirement** Degrees will be conferred only upon candidates who have completed a minimum of 30 semester hours work in regularly conducted classes on the college campus. This requirement may be met through attendance at evening and Saturday classes offered at the college.

**Hours** Candidates for degrees must obtain a minimum of 126 semester hours credits in academic work, and four in Physical Education. Extension and evening class students are not required to have the work in Physical Education.

**Quality Points** Candidates for degrees must also obtain a minimum of 130 quality points, computed as follows: for a grade of A, 3 points for each credit hour; for a grade of B, 2 points; for a grade of C, 1 point. No quality credit will be given for a grade of D.

**Major and Minor** As part of this total requirement, every candidate must present at least 24 semester hours in one department (to be known as his Major), and at least 16 semester hours in another department (to be known as his Minor). Both Major and Minor must be selected before registration for the sophomore year, the Minor to be suitably related to the Major, and chosen with the advice and approval of the Head of the Major Department.

The A.B. degree will be awarded to those fulfilling the requirements for a Major in the following departments: Bible and Religion, English, French, German, Greek, History, Latin, Mathematics (Arts option), Political Science and Sociology, Philosophy, and Psychology. The B. S. degree will be awarded to those fulfilling the requirements for a Major in the following departments: Biology, Chemistry, Mathematics (Science option), Physics, Business Administration and Economics, Education, Music Education.

Students majoring in Education must take two Minors of not less than 18 semester hours each.

## GENERAL REQUIREMENTS

Certain courses embodying the fundamentals of a liberal education, are required by all students. These courses, which vary slightly according to the degree sought, are as follows:

Bible 14 and 82	6 hours
English 16 and 26	12 hours
Foreign Language <sup>1</sup>	
History <sup>2</sup>	6 hours
Hygiene and Orientation	2 hours
Mathematics <sup>3</sup>	
Philosophy 32	2 hours
Physical Education	4 hours
Psychology 13	3 hours
Science <sup>4</sup>	
Social Studies	6 hours
Economics 16 or	
Philosophy 23-A and 23-B or	
Political Science 16 or	
Sociology 13 and 23	

<sup>1</sup> For the A.B. degree 12 hours of Foreign Language are required.

For the B.S. degree 6 hours are required above the beginners' course. Courses may be selected from French, German, Latin, or Spanish.

<sup>2</sup> This may be made up from the following courses: History 13, 123, 213, 23-A, 23-B, 46, 412, 422, 43-B.

<sup>3</sup> Math. 13, 23, and 48 are required for the degree of B.S. in Science. Pre-Medical students may substitute an elective for Math. 48. Students majoring in Business Administration and Economics are required to take Math. 13 and 23 or 113 and 123.

<sup>4</sup> Biology 18, Chemistry 18, and Physics 18 are required of candidates for the B.S. degree with a major in Science. Others may elect one of the three.

For explanation of the numbers see the college Bulletin.

Students outlining a course for a degree should communicate at once with the Head of the Department in which they intend to Major.

Candidates for the Baccalaureate degree who desire to be admitted to advanced standing by virtue of work done in other institutions, should lose no time in having their credits evaluated by the Registrar, in order that they may be informed as to what requirements they must meet for graduation.

## PRE-PROFESSIONAL COURSES

The college offers pre-medical, pre-legal, pre-theological courses to prepare students for entrance to schools of Medicine, Law, and Theology. For students who wish to major in the field of economics in preparation for the business world, the college offers a course in Business Administration. Students interested in these fields should write to the Registrar for the College Bulletin.

## MUSIC

The college has a separate department, the Conservatory of Music, for those interested in Music. Students interested in this field should write either to the Director of the Conservatory of Music or the College Registrar for the bulletin of the Conservatory.

## CREDITS

Credits will be issued to all students showing the courses attended, grades and number of semester hours credit.

## FEES

A fee of one dollar will be charged for matriculation. In the case of students registered in both extension and evening courses only one matriculation fee is required. The tuition charge for Extension and Saturday and Evening Courses will be \$8.50 for each semester hour of credit. A special tuition fee of \$5.00 per semester hour will be charged persons who desire to take any of the courses as an auditor, without examination and without credit.

Fees are due and payable within ten days after receipt of the bill from the Finance Office of the College. Remittances should be made to Lebanon Valley College and may be sent by mail to J. W. Esbenshade, Secretary of the Finance Committee.

### REGISTRATION

Special registration evenings for the extension classes in Harrisburg will be held in the Central High School Building, on Forster Street, from 7:00-9:00 p. m. on Monday and Tuesday evenings, September 18th and 19th. At that time students interested in Extension classes may meet and consult with the director, and extension class teachers relative to their courses. Students unable to register on either of the above evenings may do so on the evening the class in which they are interested meets.

Registration for Extension Courses in Ephrata will be held on Tuesday evening in the High School in Ephrata from 7:00 to 9:00 p. m., September 19th.

Registration for the evening classes at Annville will be held on Friday evening, September 22nd, from 7:00 to 9:00 p.m.

The Extension and Evening Class representative of the College in Harrisburg and the vicinity is Miss Viola Fager, 1217 North Second Street, Harrisburg.

### EXTENSION COURSES — 1944-1945

*Central School, Forster Street, Harrisburg, Pa.*

Classes begin the week of September 18th.

Course	Time
Psychology	Mondays, 7:00 p. m.
Spanish	Mondays, 7:00 p. m.
History	Tuesdays, 7:00 p. m.
Mathematics	Tuesdays, 7:00 p. m.
Economic Geography	Wednesdays, 4:30 p. m.
Economics	Wednesdays, 7:00 p. m.
English	Thursdays, 7:00 p. m.
American Government	} To be determined at time of registration.
Education	
Principles of Sociology	

## DESCRIPTION OF COURSES OFFERED IN HARRISBURG

### ECONOMICS

(One or more of the following courses, depending on demand.)

**E-16. Principles of Economics.** A course dealing with the principles underlying the operation of the economic system. A study of production, value, distribution and consumption. The course is based partly on lectures and partly on a discussion of problems. Throughout the year. Students may take either or both semesters. Three semester hours credit per semester. Wednesday evenings, 7:00 p. m.

**E-113. Economic Geography.** The course deals with: the field and function of economic geography, distribution of population, the earth, land forms, influence of soils, temperature, winds and ocean currents, climates of the world. Much of the course will deal with the more im-

portant commodities of the world's trade—their production, export and import in the various countries of the world. Stress will be laid on the chief sources of raw materials, their industrial uses and the marketing and transportation problems connected therewith. Particular stress will be placed on critical and strategic materials, their availability and substitutes, if any. First or second semester. Three semester hours credit. Wednesdays, 4:30 p. m.

**E-63. Economics of Consumption.** The study of economics is approached from the consumer viewpoint. The course includes a study of: the role of the consumer in economic life; consumer's choices; forces back of consumer demand; consumer education; budgeting; co-operative buying; reasons for high costs; producer aids to consumer; standards for consumers; government aids to consumers. One semester. Three semester hours credit. Wednesday evenings, 7:00 p. m.

**E-73. Contemporary Economic Problems.** This course is devoted specifically to the study of present day economic problems. It deals with the problems of rationing, price ceilings, inflation, taxation, the business cycle, the banking system, agriculture, transportation, population, labor, post-war period. One semester. Three semester hours credit. Wednesday evenings, 7:00 p. m.

## EDUCATION

**E-83. Educational Measurements.** Preparation for testing by the classroom teacher is offered through studying principles of validity and reliability, appraising and constructing tests, and considering the use of results. Laboratory fee of one dollar. Three semester hours credit. One semester.

**E-203. Visual and Sensory Techniques.** Psychological bases for sensory aids; use of apparatus; sources of equipment and supplies. Laboratory fee of four dollars. One semester. Three semester hours credit. May be taken for two hours credit.

## ENGLISH

(One or more of the following courses, depending on demand.)

**E-16. English Composition.** This course is required of all students proceeding to a college degree. Throughout the year. Six semester hours credit. Thursday evenings, 7:00 p. m.

**E-26. Survey of English Literature.** This course is required of students proceeding to a college degree. Throughout the year. Three semester hours credit per semester. Thursday evenings, 7:00 p. m.

**E-52. Nineteenth Century Prose.** Special attention will be paid to the work of Ruskin, Carlyle, and Arnold, each of whom foresaw, tried to avert, and proposed a possible way out of such a catastrophe as that into which the world is now plunged. One semester. Two semester hours credit.

**E-513. Poetry of the Romantic Revolt.** A study of early Nineteenth Century poetry, with special attention to five poets: Wordsworth, Coleridge, Byron, Shelley, Keats. Three semester hours credit. Thursday evenings, 7:00 p. m.

**E-526. American Literature.** This course will deal with American Literature from the beginnings to the present day. Throughout the year. Three semester hours credit per semester. Thursday evenings, 7:00 p. m.

## HISTORY

(One or more of the following courses, depending on demand.)

**E-36. The History of England and the British Empire.** This course deals with the development of England and the Empire from the earliest times to the present. Throughout the year. Three semester hours credit per semester. Tuesday evenings, 7:00 p. m.

**E-46. Political and Social History of the United States and Pennsylvania.\*** A general survey of American History with particular attention to social and cultural trends. Attention will be given to the history of Pennsylvania. Throughout the year. Three semester hours credit per semester. Tuesday evenings, 7:00 p. m.

**E-63. Economic History of the United States.** A study of the economic background of American History including the growth of American agricultural and industrial interests, from their colonial beginnings to their present day development. Three semester hours credit.

**E-123. Medieval History.** Political, social, and cultural ideas of the Middle Ages will be treated through a study of typical institutions such as the manor, guilds, courts, the church, universities, and monarchical institutions. Three semester hours credit.

**E-163. Economic History of Europe.** The economic development of Europe from the time of the Industrial Revolution to the present. Three hours credit.

## MATHEMATICS

(One or more of the following courses, depending on demand.)

**E-13. Advanced Algebra.** Covering ratio and proportion; variation; progressions; binomial theorem; theorem of undetermined coefficients; logarithms; permutations and combinations; theory of equations; partial fractions, etc. First semester. Three semester hours credit. Tuesday evenings, 7:00 p. m.

**E-23. Plane Trigonometry.** Definitions of trigonometric functions; right and oblique triangles; computation of distances and heights; development of trigonometric formulae. Second semester. Three semester hours credit. Tuesday evenings, 7:00 p. m.

**E-36. Analytic Geometry.** The equations of the straight line, circle, ellipse, parabola and hyperbola are studied. Numerous examples are solved, and as much of the higher plane curves and of the geometry of space is covered as time will permit. Throughout the year. Three semester hours credit per semester. Tuesday evenings, 7:00 p. m.

**E-103. Elementary Statistics.** General introduction to the use of statistics; method of collection of statistical data, tabulation and graphic presentation; statistical tables, simple curves, semi-logarithmic or ratio

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\* Attention is called to the action of State Council of Education, December 4, 1942.

"That subsequent to September 1, 1943, all permanent certificates issued by the Department of Public Instruction to teach in the public schools of the Commonwealth shall, in addition to the present regulations, require a basic course in the history of the United States and Pennsylvania.

And further, that subsequent to September 1, 1944, all certificates issued by the Department of Public Instruction to teach in the public schools of the Commonwealth shall, in addition to the present regulations, require a basic course in the history of the United States and Pennsylvania."

The above course is designed to meet the requirements of the State.

charts, various types of charts; ratios and percentages; frequency distribution; averages; dispersion and skewness; fitting curves; time series; fundamentals in index number construction; correlation. This course will be offered strictly from the mathematical viewpoint. If there is a sufficient demand the course will be followed by a course in applied statistics—Business Statistics—offered by the Economics Department of the college, the second semester. One semester. Three semester hours credit. Tuesday evenings, 7:00 p. m.

### **POLITICAL SCIENCE**

**E-16. American Government and Politics.** A course designed to give the students a working knowledge of the fundamentals of Federal and State Government. Three or six semester hours credit.

### **PSYCHOLOGY**

(One or more of the following courses, depending on demand.)

**E-13. General Psychology.** This course aims to acquaint the student with the psychological standpoint and with the fundamental psychological principles. It includes a study of such topics as native tendencies, acquired tendencies, emotions, imagination, memory, and reasoning. Lectures, discussions and laboratory work. Three semester hours credit. Monday evenings, 7:00 p. m.

**E-23. Educational Psychology.** Designed to meet the needs of students of education who are seeking from psychology the facts and principles that have a bearing on their problems. Special emphasis is placed on the learning process. Prerequisite: Psychology 13. Three semester hours credit. Monday evenings, 7:00 p. m.

**E-43. Psychology of Adolescence.** A study of the physical and mental changes which characterize adolescence. The questions of rate and variation in learning, motive, personality, disturbances and control of behavior will be handled. This course has been approved by the State Department of Education for professional credit. Three semester hours credit. Monday evenings, 7:00 p. m.

**E-53. Applied Psychology.** A survey of the applications of Psychology to the various fields of human relations. It includes such topics as: increase in efficiency, effect of suggestions, improvement of personality, advertising, and the psychology of the public platform. Three semester hours credit. Monday evenings, 7:00 p. m.

**E-63. Mental Hygiene.** A study of wholesome effective personality adjustments, including causes and treatment of the more common social and emotional maladjustments among college students. Prerequisite: Psychology 13. Three semester hours credit. Monday evenings, 7:00 p. m.

**E-93. Abnormal Psychology.** An introduction to the study of abnormal behavior, including such topics as hysteria, multiple personality, hypnotism, analysis of nervous and mental maladjustments, and a study of psychological processes as they occur in the more marked forms of derangement. Prerequisite: General Psychology. Three semester hours credit. Monday evenings, 7:00 p. m.

### **SOCIOLOGY**

**E-13. Principles of Sociology.** The course is intended to acquaint the student with the various theories of society together with the place of sociology in the general field of learning. Three semester hours credit.

**E-23. Modern Social Problems.** This is a study in pathology. The

organization and functions of public and private welfare and social security agencies, preventive and remedial. Three semester hours credit.

### SPANISH

(One of the following, depending on demand.)

**E-06. Elementary Spanish.** This course is intended for those who begin Spanish in college. Its aim is to enable students to write simple Spanish sentences, to carry on a conversation in easy Spanish, and to read Spanish of ordinary difficulty. College credit of six semester hours will be granted for this course if followed by Spanish 16. Throughout the year. Mondays, 7:00 p. m.

**E-16. First Year College Spanish.** This is a continuation and extension of course 06 and includes further drill in the principles of grammar, practice in conversation, composition, and dictation, and more extensive reading. For entrance to Spanish 16, the preparatory course 06 or its equivalent (two years of high-school Spanish) will be required. Throughout the year. Six semester hours credit. Mondays, 7:00 p. m.

## EXTENSION COURSES, EPHRATA

High School Building, Ephrata, Pa.

At the beginning of the second semester during the 1943-44 college year, Lebanon Valley College opened an Extension Centre in the High School at Ephrata. Four courses were given: one in History, one in Sociology, and two in Education.

The College intends to continue to offer work in Ephrata in order to meet the needs of teachers and others for courses leading to a college degree and to meet the certification requirements of Pennsylvania.

### Courses for 1944-45

The College will offer courses in "The Political and Social History of the United States and Pennsylvania," "Visual Education," and any other courses listed in this Bulletin for which there is a sufficient demand, with the exception of courses in science. The description of the course in American and Pennsylvania history will be found on page 7 of this Bulletin. The course in Visual Education is described on page 6.

Registration for extension courses in Ephrata will be held in the High School on Tuesday evening, September 19th, from 7:00 to 9:00 p. m. The time for the weekly meeting of each class will be determined at the time of registration.

Classes will probably be held from 6:30 to 8:15 and from 8:15 to 10:00 p. m. so that students may take two courses the same evening if they wish to do so.

## DESCRIPTION OF COURSES OFFERED IN ANNVILLE

The following courses will be offered by the college at Annville during the college year 1944-1945. The Science courses offer four semester hours credit—two hours credit for the lecture work and two hours credit for the laboratory work per semester. The lecture work and the laboratory work will be offered at a time mutually satisfactory to students and instructors. Residence credit is given for all courses taken at the college.

The time for the weekly meetings of each class will be arranged at the time classes are organized. Registration and organization of classes will take place in the Registrar's Office in the Administration Building of the college on Friday, September 22, from 7:00 to 9:00 p. m.

Most of the courses are offered Friday evenings, and are offered at such times as to enable students to take two courses. Should a class so desire a course may be offered on Saturday mornings.

### BIBLE

**14. Introduction to English Bible.** An appreciative and historical survey of the literature of the Old and New Testaments. This is a required course for all students proceeding to a degree. Throughout the year. Two semester hours credit per semester.

**82. The Teaching of Jesus.** This course attempts an intensive study of the religious concepts of Jesus as set forth in the Gospels. Required of all proceeding to a college degree at Lebanon Valley College. Two semester hours credit.

### BIOLOGY

**18. General Biology.** This course fulfills the science requirements of students proceeding toward a degree excepting those majoring in science in which case additional science courses are required. In addition to two hours of lectures per week, four hours work per week in the laboratory is required. The lectures and the laboratory work will be held on Saturdays. Credit will be granted to those students who wish only the lecture work and not the laboratory work. Throughout the year. Four semester hours credit per semester.

**28. Botany.** The object of the course is to give the student a general knowledge of the plant kingdom. One or more types of each of the classes of algae, fungae, liverworts, mosses, ferns, and seed plants are studied.

Special attention is given to the phylogeny and ontogeny of the several groups, and constant comparisons are made of those structures indicating relationships. The principles of classification are learned by the identification of about one hundred and fifty species of plants represented in the local spring flora. These studies are conducted in the field so that the plants are seen as dynamic forces adapted to their environment. The lectures will be held on Friday evenings and the laboratory work will be on Saturday mornings, 8-12. Throughout the year. Four semester hours credit.

Note: If there should be sufficient demand, other courses in Biology may be offered.

### BUSINESS ADMINISTRATION

**93. Public Finance and Administration.** Economic functions of the state; federal and state expenditures; economic and social aspects of public spending; budgetary control; nature of taxation and distribution of the tax burden; the shifting and incidence of taxes; the general property tax; estate and inheritance taxation; sales taxes; personal and corporate income taxes; the excess profits tax; social security taxes; other taxes and administrative revenues; problems of the tax system; public debts and their redemption. Three semester hours credit.

**123. Industrial Organization and Management.** A study of the fundamentals of business organization and administration; the field of business administration; plant location; the administration of personnel;

market problems; finance; production; risk-bearing; wage systems; welfare activities. Three semester hours credit.

### **CHEMISTRY**

**18. General Inorganic Chemistry.** A systematic study of the fundamental principles of and the sources, properties and use of the important elements and compounds. The lectures are illustrated by displays, demonstrations, experiments and moving pictures. In the laboratory the student acquires first-hand acquaintance with numerous representative substances and methods. The laboratory fee is \$16.00. Throughout the year. Four semester hours credit per semester.

**48. Organic Chemistry.** Two hours lectures and recitations and three hours of laboratory work daily. The course includes a study of the sources, classification and type reactions of organic materials. It includes foodstuffs and their relation to nutrition, dyes, pharmaceuticals, explosives, coal tar intermediates and manufacturing processes.

The laboratory work consists of about sixty experiments covering the preparation and study of a wide range of representative compounds. Prerequisite: Chemistry 18. Laboratory fee is \$24.00. Throughout the year. Four semester hours credit per semester.

### **ECONOMICS**

**13. Economic Geography.** The course deals with: the field and function of economic geography, distribution of population, the earth, land forms, influence of soils, temperature, winds and ocean currents, climates of the world. Much of the course will deal with the more important commodities of the world's trade—their production, export and import in the various countries of the world. Stress will be laid on the chief sources of raw materials, their industrial uses and the marketing and transportation problems connected therewith. Particular stress will be placed on critical and strategic materials, their availability and substitutes, if any. One semester. Three semester hours credit.

**16. Principles of Economics.** A course dealing with the principles underlying the operation of the economic system. A study of production, value, distribution and consumption. Three or six semester hours credit.

**63. Economics of Consumption.** The study of economics is approached from the consumer viewpoint. The course includes a study of: the role of the consumer in economic life; consumer's choices; forces back of consumer demand; consumer education; budgeting; co-operative buying; reasons for high costs; producer aids to consumer; standards for consumers; government aids to consumers. One semester. Three semester hours credit.

**73. Contemporary Economic Problems.** This course is devoted specifically to the study of present day economic problems. It deals with the problems of rationing, price ceilings, inflation, taxation, the business cycle, the banking system, agriculture, transportation, population, labor, post-war period. One semester. Three semester hours credit.

### **EDUCATION**

**43. History of Education in the United States.** The development of education in the United States in relation to social and economic changes from colonial times to the present, including detailed study of developments in Pennsylvania. One semester. Three semester hours credit.

**83. Educational Measurements.** A critical analysis of the problems in measuring the results of teaching. A study of the uses and admin-

istration of representative tests and scales for the junior and senior high school subjects. One semester. Three semester hours credit.

**113. Principles and Techniques of Secondary School Teaching.** A study of principles, practices, and methods with their significance to secondary school teaching. One semester. Three semester hours credit.

**203. Visual and Sensory Techniques.** Psychological bases for sensory aids; use of apparatus; sources of equipment and supplies. Laboratory fee of four dollars. Three semester hours credit. May be taken for two hours credit.

Note: If there is a sufficient demand, any other standard course in the secondary field may be offered in addition to, or in place of, any of the above courses.

## ENGLISH

**16. English Composition.** Required of all students proceeding to a college degree. Six semester hours credit.

**26. A Survey of English Literature.** This course is required of all students proceeding to a degree, except those preparing for a B.S. in Chemistry. It is offered in two parts. Students may take either or both, depending on their requirements. Three or six semester hours credit.

**63-A. The development of the Drama to Shakespeare.** A survey of the drama from ancient Greece to Elizabethan England; a rapid reading of plays by Llyl, Marlowe, Gieene, Kyd, Dekker, Jonson; a study of Shakespeare's historical plays, with special attention to Richard II and Henry IV. Three semester hours credit.

**63-B. Shakespeare.** A study of the comedies and tragedies. Three semester hours credit.

**152. History of the English Language.** Historical study of the English sounds, inflections, and vocabulary. Standards of correctness; current usage. Recommended especially for prospective teachers of English composition. Two or three semester hours credit.

**512. Poetry of the Romantic Revolt.** A study of early Nineteenth Century poetry, with special attention to five poets: Wordsworth, Coleridge, Byron, Shelley, Keats. Two or three semester hours credit.

**523. American Literature.** From the beginnings to the present day. Three or six semester hours credit.

## FRENCH

**06. Elementary French.** This course is intended for those who begin French in College. Its aim is to enable the student to write simple French sentences, to carry on a conversation in easy French, and to read French of ordinary difficulty. College credit of six semester hours will be granted for this course, if followed by French 16, but it cannot be counted toward a major.

**16. First Year College French.** This course presupposes two years of high school French. It includes further drill in the principles of grammar, practice in conversation, composition, and dictation, and more extensive reading. Six semester hours credit.

## GERMAN

**06. Elementary German.** This course is intended to give students a reading knowledge of German of average difficulty, and to enable them to understand the spoken language and to express simple ideas

idiomatically. College credit will be given for the course but it cannot be counted toward a major. Six semester hours credit.

**16. Modern German Literature.** Reading of nineteenth and twentieth century literature combined with a study of geography, history, and art. Grammar and composition. Six semester hours credit.

## HISTORY

**23-A. Europe from 1815 to 1914.** A survey of Nineteenth Century Europe. This course will be followed by History 23-B. First semester. Three semester hours credit.

**23-B. Europe from 1914 to the Present.** A study of the World War and post-war problems. Emphasis will be placed upon current history. Second semester. Three semester hours credit.

**36. The History of England and the British Empire.** This course deals with the development of England and the Empire from the earliest times to the present. Throughout the year. Three semester hours credit per semester.

**46. Political and Social History of the United States and Pennsylvania.** See description of course and note on the new state requirements on p. 7. Throughout the year. Three semester hours credit per semester.

**63. Economic History of the United States.** A study of the economic background of American History, including the growth of American agricultural and industrial interests from their colonial beginnings to their present day development. Three semester hours credit.

**123. Medieval History.** Political, social, and cultural ideas of the Middle Ages will be treated through a study of typical institutions such as the manor, guilds, courts, the church, universities, and monarchical institutions. Three semester hours credit.

**163. Economic History of Europe.** The economic development of Europe from the time of the Industrial Revolution to the present. Three hours credit.

## MATHEMATICS

**13. Advanced Algebra.** Covering ratio and proportion, variation, progressions, binomial theorem, theorem of undetermined coefficients, logarithms, permutations and combinations, theory of equations, partial fractions, etc. First semester. Three semester hours credit.

**23. Plane Trigonometry.** Definitions of trigonometric functions, right and oblique triangles, computation of distances and heights, development of trigonometric formulae. Second semester. Three semester hours credit.

**36. Analytic Geometry.** The equations of the straight line, circle, ellipse, parabola and hyperbola are studied. Numerous examples are solved, and as much of the higher plane curves and of the geometry of space is covered as time will permit. Throughout the year. Three semester hours credit per semester.

**74. Differential Equations.** A course in the elements of differential equations. Throughout the year. Two semester hours credit per semester.

**113. Introduction to the Mathematics of Finance.** This course takes up the solution of the quadratic equation, logarithms, progressions, permutations and combinations, and the application of these to financial problems. First semester. Three semester hours credit.

**123. Mathematics of Finance.** The course seeks to present the mathematical principles and operations used in financial work. A detailed study of compound interest, compound discount, and annuities is undertaken. Application of these principles is then made to practical problems of amortization, sinking funds, depreciation, valuation of bonds, and building and loan associations. Second semester. Three semester hours credit.

### MUSIC

**553. Music History and Appreciation.** In this course the developments of music are treated briefly, with emphasis placed on the growth of musical movements on the lives, works and influence of the great composers. An integral part of the course will be listening to representative music of the different periods of musical history, and of the important composers. First semester. Three semester hours credit.

### PHILOSOPHY

**23-A. Ancient and Medieval Philosophy.** In this course the aim will be (1) to trace the development of philosophy, pointing out what of permanent value each system as it arose contributed toward a final solution of the nature of being, and (2) to show the interaction between philosophic thought and the practical life of the period during which it flourished. Three semester hours credit.

**23-B. Modern Philosophy.** Continuation of 23-A. Three semester hours credit.

**32. Ethics.** The aim of this course is to acquaint the student with the academic ethical problems, and to effect an awakening and a strengthening of the moral sense. This is a required course for all students proceeding to a degree. Two semester hours credit.

### PHYSICS

**16. General College Physics.** Two hours lectures and recitations daily. This course will be a thorough investigation of the fundamental principles of physical science, and is especially intended as a preparation for Physics 2, 3, and 4, and for those interested in the practical application of physical laws and principles. When accompanied by Physics 12, it meets the minimum requirements of those who are candidates for the bachelor's degree in science and for admission to the Medical Schools. Six semester hours credit.

**12. General Physics Laboratory.** Laboratory work associated with the subject matter of Physics 16. This course should accompany Physics 16. Two semester hours credit.

### POLITICAL SCIENCE

**16. American Government and Politics.** A course designed to give the students a working knowledge of the fundamental laws of Federal and State Government. Three or six semester hours credit.

**43. Political Theory.** A survey of the different philosophies and theories of Government, Ancient and Modern, with special reference to political philosophy since the 16th Century. Three semester hours credit.

### PSYCHOLOGY

**13. General Psychology.** This course aims to acquaint the student with the psychological standpoint and with the fundamental psychological principles. It includes a study of such topics as native tendencies, acquired tendencies, emotions, imagination, memory, and reasoning. Lec-

tures, discussions and laboratory work. Three semester hours credit.

**23. Educational Psychology.** Designed to meet the needs of students of education who are seeking from psychology the facts and principles that have a bearing on their problems. Special emphasis is placed on the learning process. Prerequisite: Psychology 13. Three semester hours credit.

**43. Psychology of Adolescence.** A study of the physical and mental changes which characterize adolescence. The questions of rate and variation in learning, motive, personality, disturbances and control of behavior will be handled. This course has been approved by the State Department of Education for professional credit. Three semester hours credit.

**53. Applied Psychology.** A survey of the applications of Psychology to the various fields of human relations. It includes such topics as: increase in efficiency, effect of suggestions, improvement of personality, advertising, and the psychology of the public platform. One semester. Three semester hours credit.

**63. Mental Hygiene.** A study of wholesome effective personality adjustments, including the causes and treatment of the more common and emotional maladjustments among college students. Pre-requisite: General Psychology. One semester. Three semester hours credit.

**93. Abnormal Psychology.** An introduction to the study of abnormal behavior, including such topics as hysteria, multiple personality, hypnotism, analysis of nervous and mental maladjustments, and a study of psychological processes as they occur in the more marked forms of derangement. Prerequisite: General Psychology. One semester. Three semester hours credit.

## SOCIOLOGY

**16. Principles of Sociology.** Throughout the year. Students may enter either semester. Three semester hours credit per semester.

## SPANISH

**06. Elementary Spanish.** This course is intended for those who begin Spanish in college. Its aim is to enable students to write simple Spanish sentences, to carry on a conversation in easy Spanish, and to read Spanish of ordinary difficulty. College credit of six semester hours will be granted for this course if followed by Spanish 16.

**16. First Year College Spanish.** This is a continuation and extension of course 06 and includes further drill in the principles of grammar, practice in conversation, composition, and dictation, and more extensive reading. For entrance to Spanish 16, the preparatory course 06 or its equivalent (two years of high school Spanish) will be required. Six semester hours credit.

## STATISTICS

**103. Elementary Statistics.** General introduction to the use of statistics; method of collection, tabulation and graphic presentation; analysis and interpretation; charts; averages, dispersion and skewness; correlation; application to the study of business cycles, population, and other problems. Required course for all majors in Business Administration and Economics. The course is a particularly valuable course for those preparing for Civil Service Examinations. This is strictly a first course in statistics. Either semester. Three semester hours credit.

The courses in Spanish may be used equally with French, German, Greek, and Latin to meet the general college requirement in foreign language.

